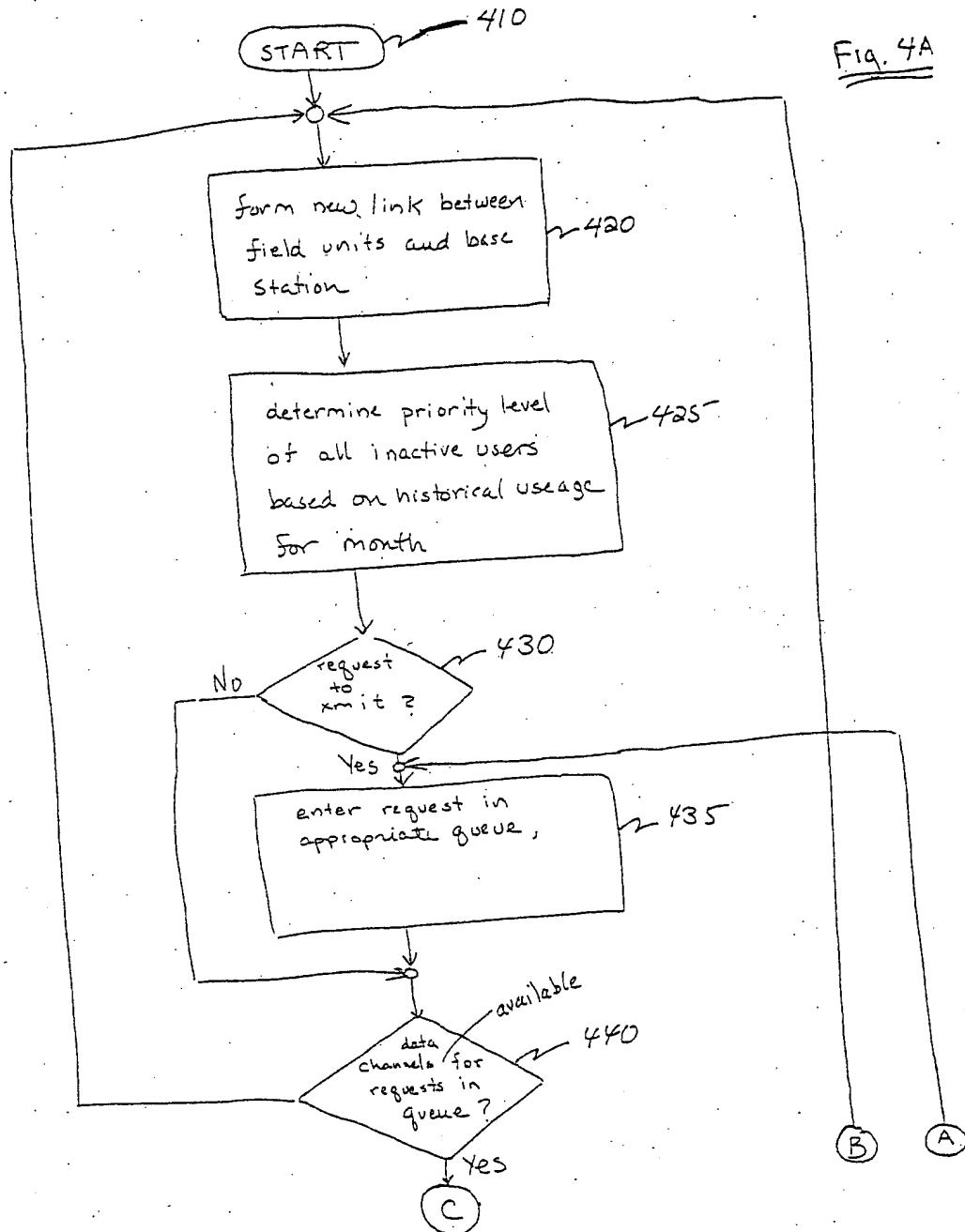
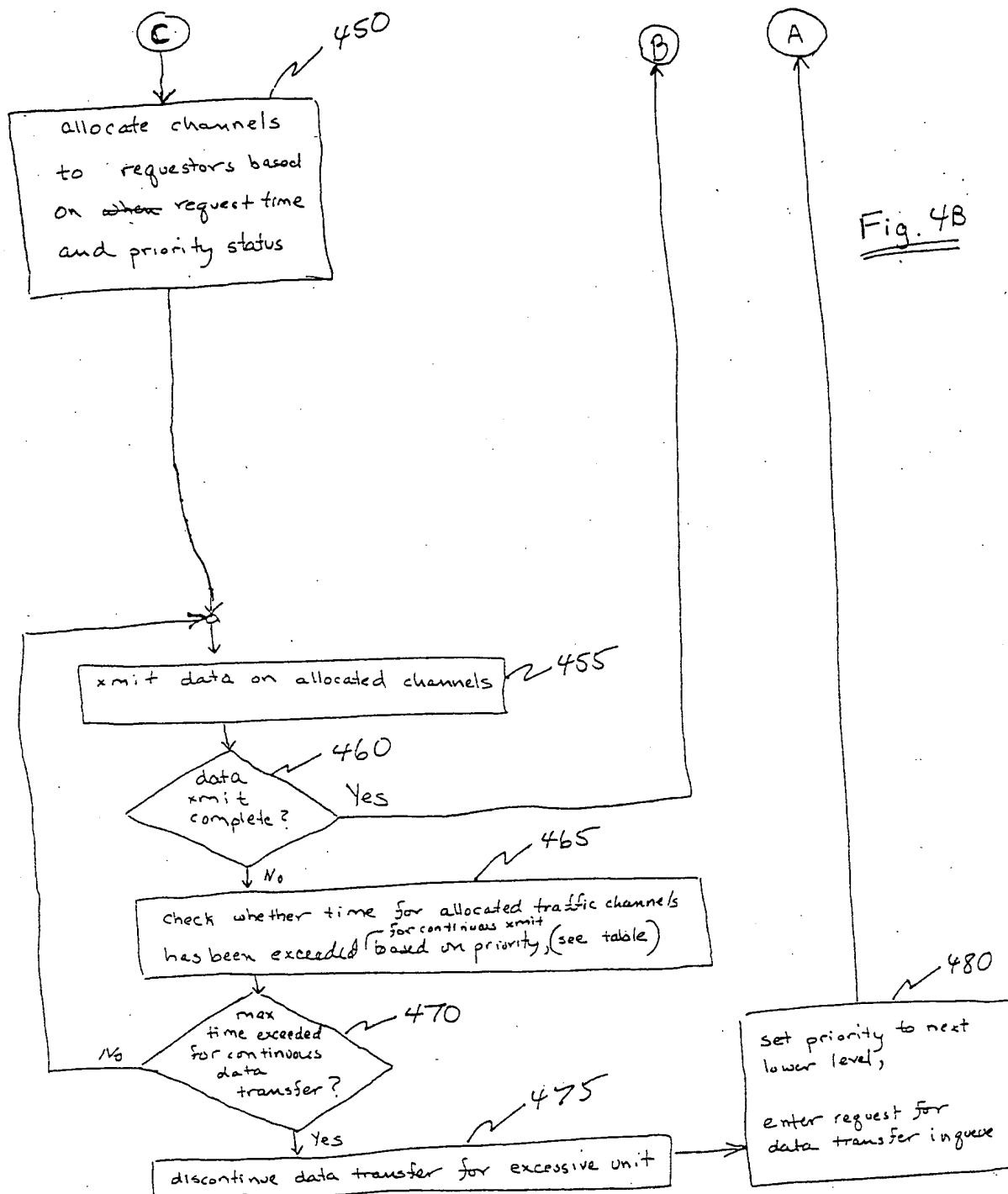


Fig. 2

<u>Priority Level</u>	<u>Max. time for continuous transfer</u>
1	600 seconds
2	120 seconds
3	30 seconds

Fig. 3





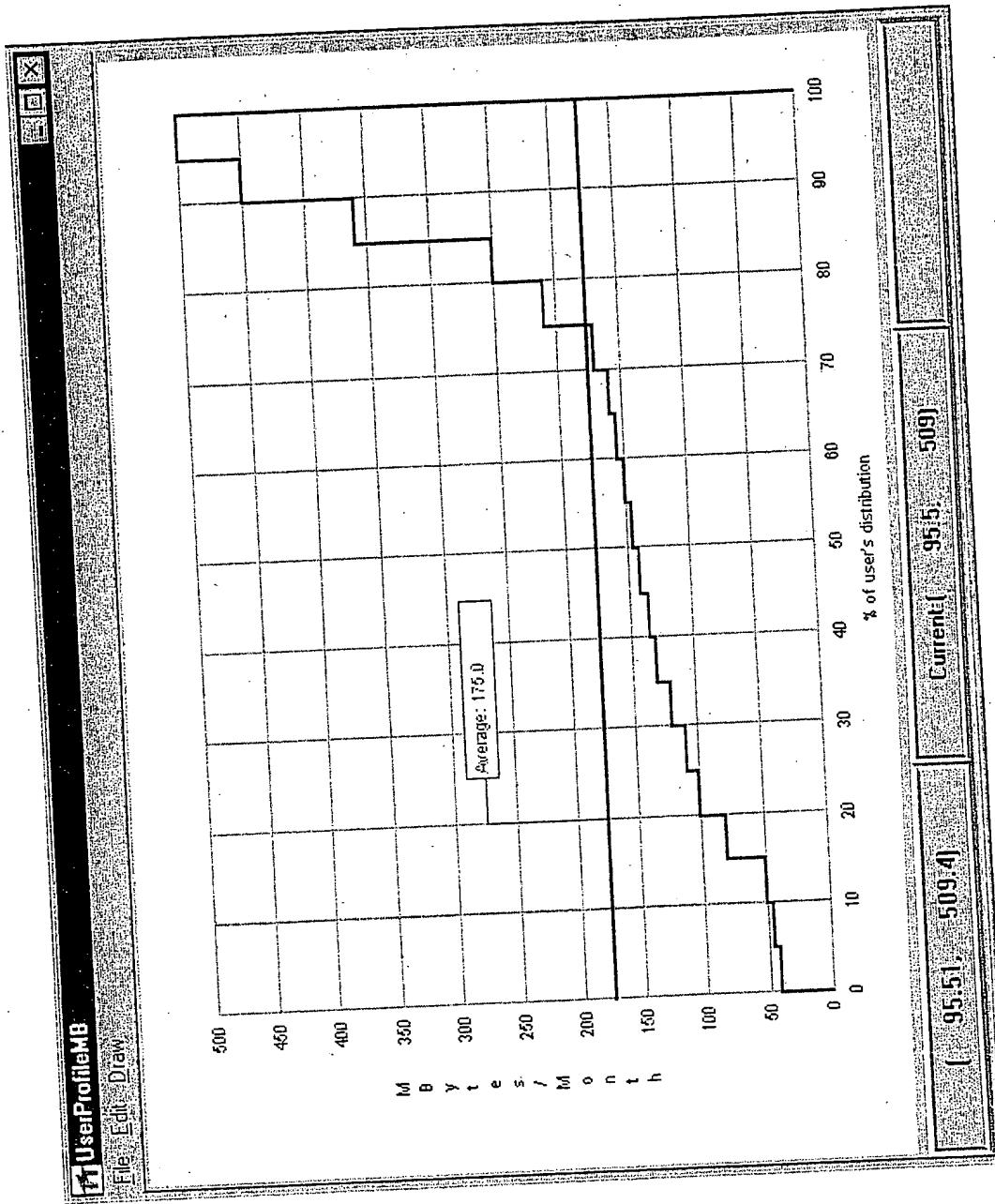


FIG 5

Application	Unit of Work	Estimated units per month given an acceptable speed, monthly volumes (Megabytes during peak load time)		Unit size in Kilobytes given an acceptable speed, (during peak load time, giving peak load time)		Acceptable Speed (bps - Reverse)		Theoretical Response time for unit (seconds)	
		Message	Message	Letter	Letter	Letter	Letter	Message	Message
Short Messages	Message	100	0.1	0.01	14	14	0.06		
WAP and short e-mail	Message	200	0.2	0.04	14	14	0.11		
e-mail	Letter	200	1	0.20	28	28	0.29		
e-mail with attachments (Send&Receive)	Letter	50	200	10.0	128	128	12.50		
Web Browsing (articles, text information etc.)	Page	300	20	6.0	128	128	1.25		
Web Browsing (e-bay news, searching products, etc.)	Page	800	50	40.0	256	256	1.56		
Web Downloads (programs, Applications)	Program	4	5000	20.0	384	384	104.17		
Distant Learning	Lesson	4	3000	12.0	256	256	N/A		
MP3 downloads and sharing	Song	8	4000	32.0	384	384	83.33		
Internet radio	Minute of Listening	200	480	96.0	64	64	N/A		
Videoconferencing	Minute of Session	60	2880	172.8	384	384	N/A		

Fig. 6

App No.: 09/778,478
Title: Grade of Service and Fairness ...
Inventors: Carlo Amalfitano

Peak usage graph

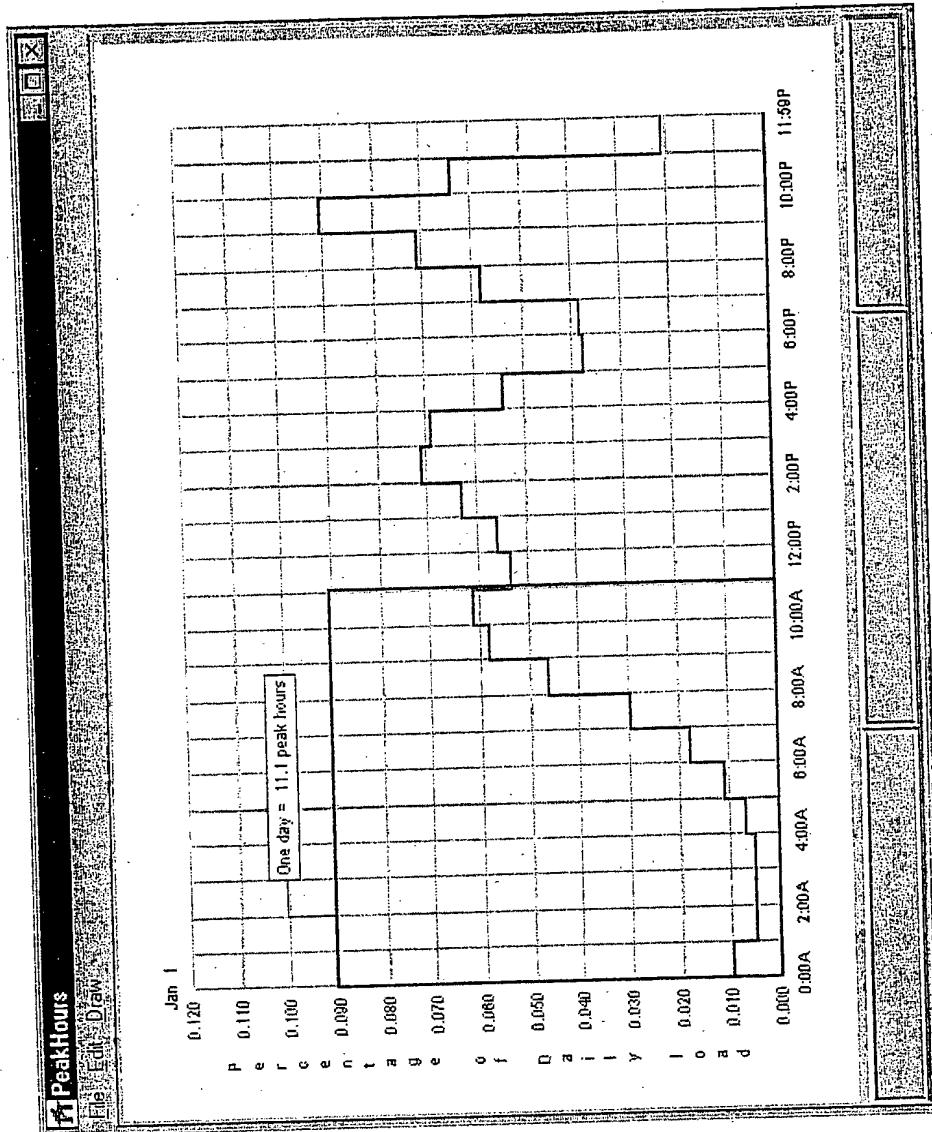


Fig. 7

App No.: 09/778,478

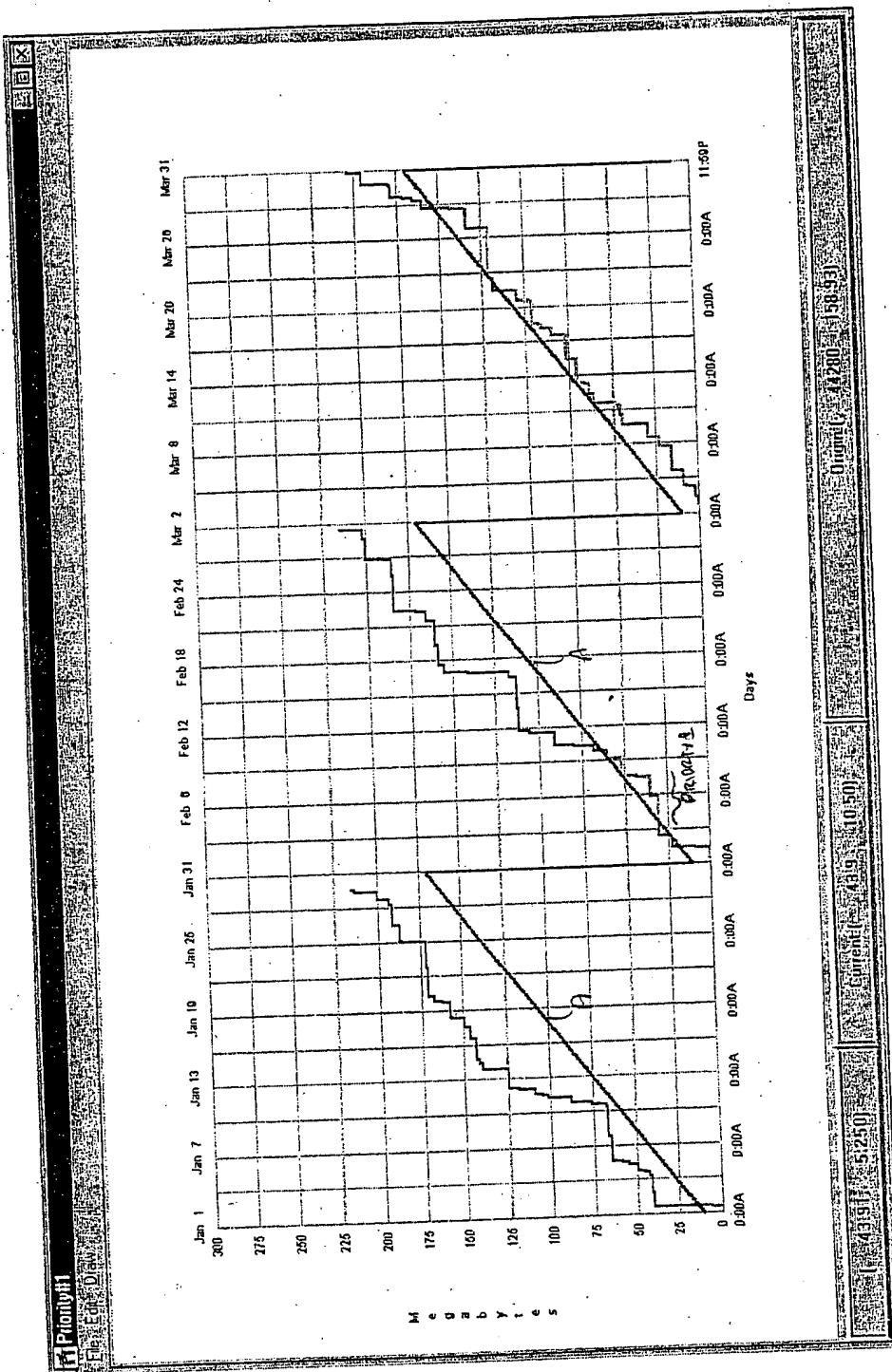
•e: Grade of Service and Fairness ...

Inventors: Carlo Amalfitano

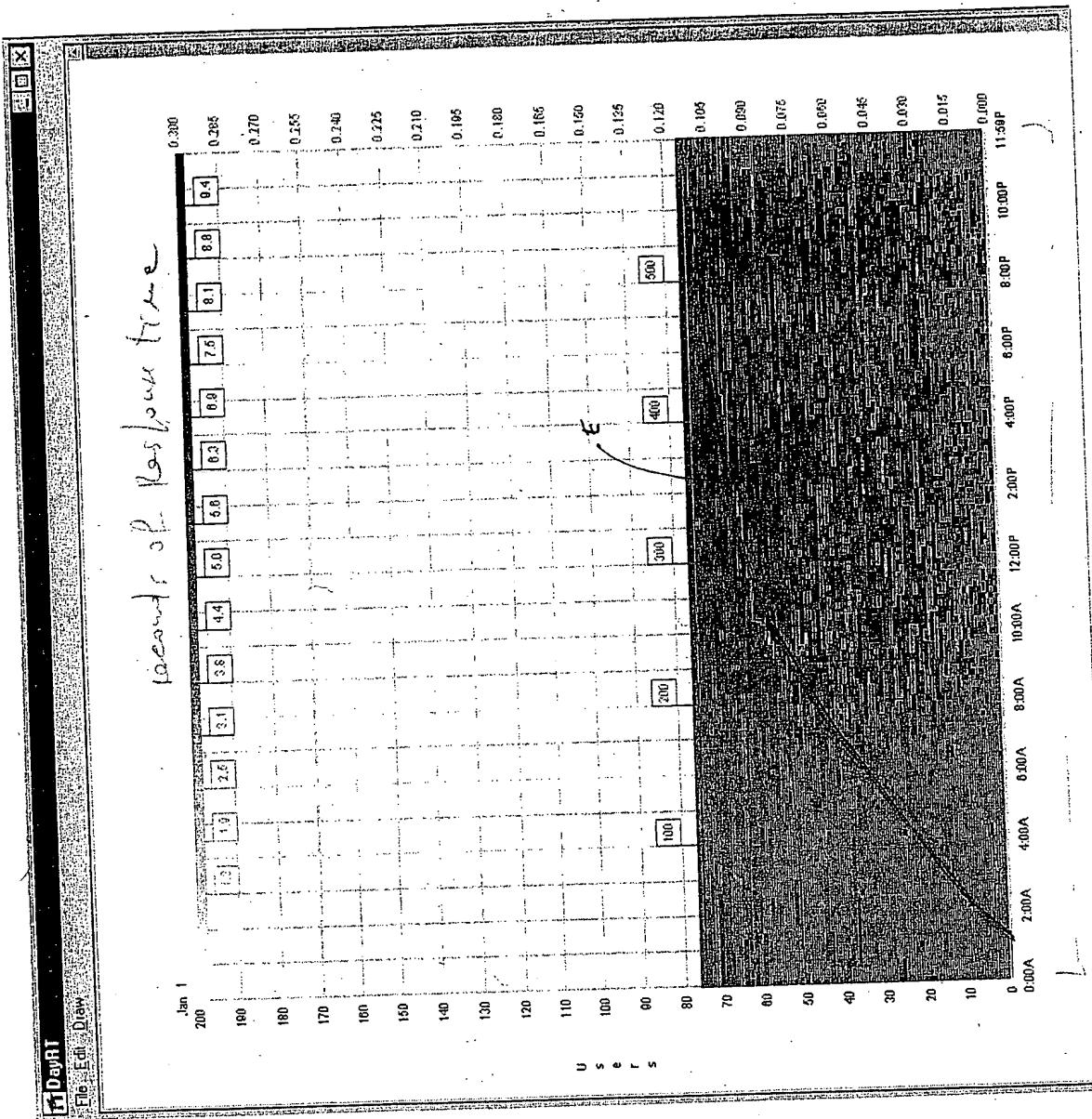
Main	Impellence Factor	User Distribution	Peak Load
PipeSize (Kilo Bytes)	65	N. of Subscribers	75
Neword RT (sec.)	0.7	Initial Allocation (MBY)	10
PipeSize (Mbps)	0.4	End of Month Allocation	170
PipeEfficiency (%)	0.55	Sessions Per Day	1
Max Avg Speed per S.	168	Host ISP Birthdays	

Ap. No.: 09/778,478
Title: Grade of Service and Fairness ...
Inventors: Carlo Amalfitano

Example for User # 52



5
II



App No.: 09/778,478

Title: Grade of Service and Fairness ...

Inventors: Carlo Amalfitano

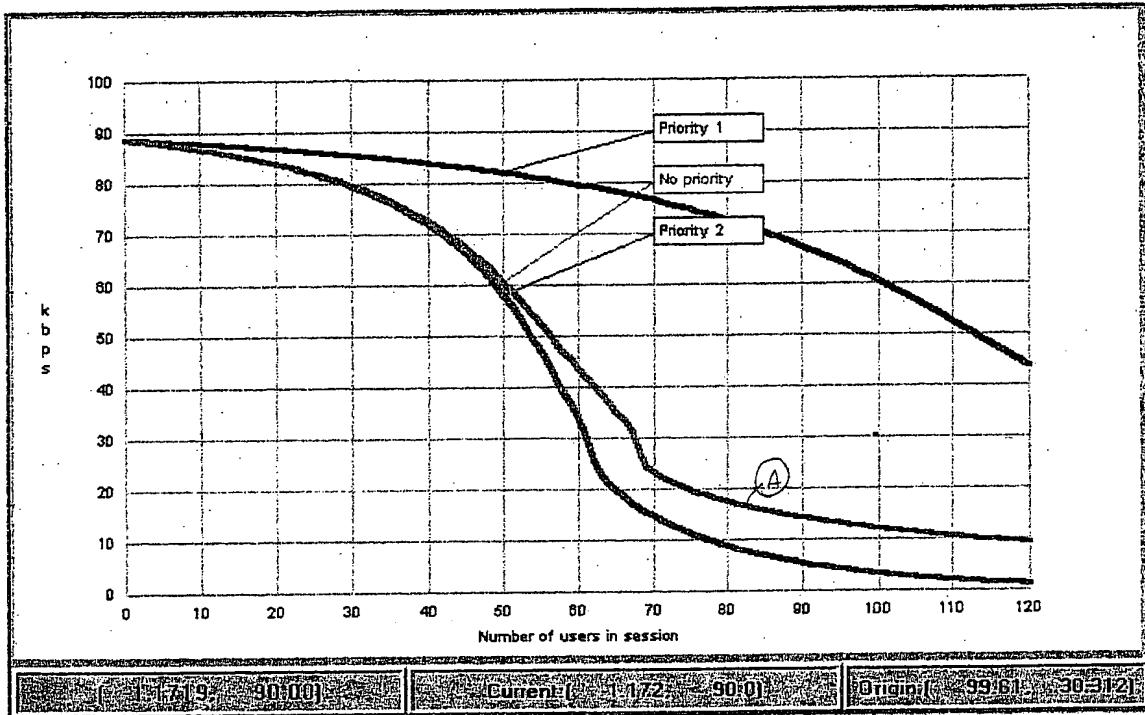


FIG. 11